BULK SPECIFIC GRAVITY OF COMPACTED HOT MIX ASPHALT USING SATURATED SURFACE-DRY SPECIMENS AASHTO T 166

APPARATUS

	[]	Balance, sufficient capacity for sample, readable to 0.1 g or better, in accordance with AASHTO M 231
	ſ]	Suspension apparatus
	-	-	[] Center of balance pan
			Suspension wire of smallest practical size
			[] Holder and sample completely immersed
	[]	Water Bath
			[] Equipped with overflow outlet to maintain constant water level
			[] Deep enough to completely immerse holder and sample
			[] Water is 77 ± 1.8 °F
	[]	Drying Oven
			[] Capable of maintaining $125 \pm 5^{\circ}$ F
	[]	Vacuum Drying Chamber
			[] Meeting requirements of ASTM D7227
	[]	Large flat bottom drying pan (Method C)
PROC	ŒI	DUR	E METHOD A
	ſ	1	Specimen dried (Recently prepared laboratory specimens that have not been
		•	exposed to moisture do not require drying)
			[] In an oven until constant weight (Note 1) is achieved (Saturated samples
			shall be dried overnight and constant weight then determined)
			[] In a vacuum chamber until constant weight (Note 1) is achieved
	Γ]	Specimen cooled to room temperature at $77 \pm 9^{\circ}$ F and weighed
		ĺ	Specimen immersed in water for 3-5 minutes and weight recorded
	-	1	Specimen surface dried by blotting with a damp towel as quickly as possible and
	_	_	weighed (damp is considered to be when no water can be wrung from the towel)
	Γ	1	Entire blotting operation does not exceed 15 seconds
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Note 1 -- Constant weight is defined as the weight at which further drying in at 125 \pm 5°F does not alter the weight by more than 0.05 percent when weighed at 2 h intervals when using oven drying or by more than 0.05 percent when weighed after at least 2 drying cycles of the vacuum-drying apparatus required in ASTM D 7227

Calculations

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	Bulk Specific Gravity = $\frac{A}{B-C}$	
	where: A = weight of sample in air, g B = weight of surface - dry specimen in air, g C = weight of sample in water, g	
[]	Percent water absorbed by specimen is equal to or less than 2.0 percent by volun as follows:	ne
	Water Absorbed by Volume, $\% = \frac{B - A}{B - C} \times 100$	
PROCEDUR	RE METHOD C (RAPID TEST FOR SPECIMENS OBTAINED BY CORIN OR SAWING)	G
[]	Specimen immersed in water for 3-5 minutes and weight recorded Specimen surface dried by blotting with a damp towel as quickly as possible ar weighed	ıd
[]	Specimen placed in large flat bottom drying pan of known weight Pan and specimen placed in oven at $230 \pm 9^{\circ}$ F until the specimen may be easi separated to the point where the particles of the fine aggregate - binder portion a not larger than $1/4$ in.	-
[] [] []	Separated specimen dried in oven at 230°F to constant weight (Note 1) Pan and specimen cooled in air to room temperature at 77 ± 9 °F and weighed Dry weight of specimen determined by subtracting the weight of pan from weight pan and sample	of
[]	Bulk specific gravity is calculated correctly to three decimal places (0.000) using the same procedure in Method A	ne
X - R	Not Applicable equires Corrective Action atisfactory	
Acceptance T	Technician Technician	
INDOT	Date	
Comments: _		_

Bulk specific gravity calculated correctly to three decimal places (0.000) as follows: